



General

Title

Diagnosis and management of asthma: percentage of patients with asthma who return to the emergency department (ED) for treatment of asthma within 30 days of last visit to the ED.

Source(s)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of asthma. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2010 Jun. 64 p. [77 references]

Measure Domain

Primary Measure Domain

Use of Services

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the Measure Validity page.

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of patients with asthma who return to the emergency department (ED) for treatment of asthma within 30 days of last visit to the ED.

Rationale

The priority aim addressed by this measure is to improve the treatment and management of asthma in inpatient care settings.

Primary Clinical Component

Denominator Description

Number of asthma patients age 5 and older who were seen in emergency department (ED) for asthma* treatment

*Asthma includes International Classification of Diseases, Ninth Revision (ICD-9) diagnosis codes: 493.00, 493.01, 493.10, 493.11, 493.90, 493.91

Numerator Description

Number of asthma patients age 5 and older who return to the emergency department (ED) for treatment of asthma within 30 days of the last visit to the ED

Evidence Supporting the Measure

Evidence Supporting the Value of Monitoring Use of Service

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

Evidence Supporting Need for the Measure

Need for the Measure

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

Monitoring and planning

Application of Measure in its Current Use

Care Setting

Emergency Medical Services

Hospitals

Professionals Responsible for Health Care

Lowest Level of Health Care Delivery Addressed

Single Health Care Delivery Organizations

Target Population Age

Age greater than or equal to 5 years

Target Population Gender

Either male or female

Stratification by Vulnerable Populations

Unspecified

Characteristics of the Primary Clinical Component

Incidence/Prevalence

Unspecified

Association with Vulnerable Populations

Unspecified

Burden of Illness

Unspecified

Utilization

Unspecified

Costs

Unspecified

Institute of Medicine (IOM) Healthcare Quality Report Categories

IOM Care Need

IOM Domain

Not within an IOM Domain

Data Collection for the Measure

Case Finding

Users of care only

Description of Case Finding

Patients age five and older with emergency department (ED) visit related to asthma

Data for this measure can be collected electronically. If collected electronically, query all patients with asthma diagnosis codes: 493.00, 493.01, 493.10, 493.11, 493.90, 493.91, who were seen in ED for asthma treatment. Select a sample of at least 20 patients and review their medical records for documentation of return to the ED within 30 days of the last visit for asthma treatment.

It is suggested that data are collected monthly for those that want to be able to track process changes over a shorter period. Otherwise, data can also be collected quarterly.

Denominator Sampling Frame

Patients associated with provider

Denominator Inclusions/Exclusions

Inclusions

Number of asthma patients age 5 and older who were seen in emergency department (ED) for asthma* treatment

*Asthma includes International Classification of Diseases, Ninth Revision (ICD-9) diagnosis codes: 493.00, 493.01, 493.10, 493.11, 493.90, 493.91.

Exclusions

Unspecified

Relationship of Denominator to Numerator

All cases in the denominator are equally eligible to appear in the numerator

Denominator (Index) Event

Clinical Condition

Encounter

Therapeutic Intervention

Denominator Time Window

Time window is a single point in time

Numerator Inclusions/Exclusions

Inclusions

Number of asthma patients age 5 and older who return to the emergency department (ED) for treatment of asthma within 30 days of the last visit to the ED

Exclusions

Unspecified

Measure Results Under Control of Health Care Professionals, Organizations and/or Policymakers

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

Numerator Time Window

Fixed time period

Data Source

Administrative data

Medical record

Level of Determination of Quality

Does not apply to this measure

Pre-existing Instrument Used

Unspecified

Computation of the Measure

Scoring

Rate

Interpretation of Score

Undetermined

Allowance for Patient Factors

Standard of Comparison

Internal time comparison

Evaluation of Measure Properties

Extent of Measure Testing

Unspecified

Identifying Information

Original Title

Percentage of patients with asthma who return to the emergency department (ED) for treatment of asthma within 30 days of last visit to the emergency department.

Measure Collection Name

Diagnosis and Management of Asthma Measures

Submitter

Institute for Clinical Systems Improvement - Nonprofit Organization

Developer

Institute for Clinical Systems Improvement - Nonprofit Organization

Funding Source(s)

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Composition of the Group that Developed the Measure

Work Group Members: Richard Sveum, MD (Work Group Leader) (Park Nicollet Health Services) (Allergy); Mary Keating, MD (CentraCare) (Allergy); David Lowe, MD, PhD (Olmsted Medical Center) (Allergy); Michael Rethwill, MD (HealthPartners Medical Group) (Family Medicine); Janet Malkiewicz, RN AE-C (HealthPartners Medical Group) (Health Education); Gail Brottman, MD (Hennipin County Medical Center) (Pediatrics); Ken Johns, MD (Allina Medical Clinic) (Pediatrics); Sarah Manney, DO (St. Mary's/Duluth Clinic Health System) (Pediatrics); Molly Ekstrand, RPh, AE-C (Fairview Health Services) (Pharmacist/Asthma Educator); Kaiser Lim, MD (Mayo Clinic) (Pulmonology); Nicollete Myers, MD (Park Nicollet Health Services) (Pulmonology); Marlis O'Brien, RRT, CPFT, AE-C (Mayo Health System -- Franciscan Skemp)

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No other work group members have potential conflicts of interest to disclose.

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Adaptation

Measure was not adapted from another source.

Release Date

2010 Jun

Measure Status

This is the current release of the measure.

Source(s)

Institute for Clinical Systems Improvement (ICSI). Diagnosis and management of asthma. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2010 Jun. 64 p. [77 references]

Measure Availability

The individual measure, "Percentage of Patients with Asthma Who Return to the Emergency Department (ED) for Treatment of Asthma within 30 Days of Last Visit to the Emergency Department," is published in "Health Care Guideline: Diagnosis and Management of Asthma." This document is available from the Institute for Clinical Systems Improvement (ICSI) Web site _______.

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NQMC Status

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